

Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about

Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment
 that is subject to change. Fish passage data are also collected from a variety of agencies and
 sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy,
 completeness, or the results obtained from use of the data. WDFW assumes no liability for the
 data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently
 known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of
 data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: https://wdfw.wa.gov/publications/02061
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

NFB = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q**_{fp} = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

WDFW Fish Passage and Diversion Screening Inventory Database

Site Description Report

990623	Project	FBRB		■ Mitigated		
Geographic Coordinate	es	Waterboo	dy			
Latitude (WGS 84):	48.227199	Stream:		Secret Cr		
Longitude (WGS 84):	-122.228295	Tributar	у То:	Pilchuck Cr		
East (NAD 83 HARN):	1,219,029.4	WRIA:		05.0065		
North (NAD 83 HARN)	1,060,092.4	River Mi	le:	0.89		
		Fish Use	e Potenti	al: Yes		
General Location		FUP Cri	teria:	Biological		
Road Name:	I-5; SB	Owner				
Mile Post:	211.70	Type:	State			
County:	Snohomish	Name:	Washin	gton State Department		
WDFW Region:	4		of Transportation			
PI Species						
☐ Sockeye	☐ Chinook		✓ Sea	Run Cutthroat		
☐ Pink	✓ Coho		✓ Res	sident Trout		
✓ Chum	Steelhead		☐ Bull	Trout		
Associated Features						
✓ Culvert	☐ Dam	☐ Natural Ba	arrier	☐ Diversion		
☐ Non-Culvert Xing	☐ Other	\square Fishway				
_ocation/Directions						
This is the I-5 southbour	d lane site. Access	can be gained fro	om Old H	lwy. 99, 1.2 miles south		
of SR 532.						
Site Comments						
_ocally known as Secret	Cr. Passes under C	Old Hwy 99, also.	Fish obs	served by previous		
survey crew.						

2/22/2022

These data represent a snapshot of the Washington Department of Fish and Wildlife's current records. Due to the ongoing nature of assessment and inventory of these features, these data may not accurately represent conditions on the ground, and are subject to change.

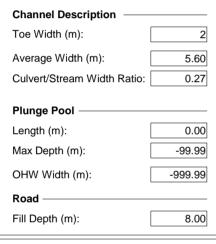
WDFW Fish Passage and Diversion Screening Inventory Database

Level A Culvert Assessment Report

Site ID:	990623				
Latitude:	48.227199	Stream:	Secret Cr	WRIA:	05.0065
Longitude	e: -122.228295	Tributary To:	Pilchuck Cr	Fish Use Potential:	Yes

Data Source:		Washington Department of Fish and Wildlife							
	Field Crew:	Fredley;Moore	Review Date:	4/17/2018					

Culvert Details							Level A	Parameters					
<u>ID</u>	<u>Shape</u>	Material	<u>Span</u>	<u>Rise</u>	<u>Length</u>	<u>WDIC</u>	<u>Apron</u>	WSDrop	Location	Countersunk	<u>Backwater</u>	Slope (%)	Sediment
1.1	вох	CPC	1.53	2.15	117.60	1.10	BE	0.20	Inlet	No	No	0.71	
All	All dimensions in meters												





Assessment Results		Tidal Influence:	Tidegate Present:		esent:	No	
Barrier:	Yes	Passability (%):	67	Method:		Level B	
Reason:	Velocity	Fishway Present:	No	Recheck:			

Comments

This is the southbound lane culvert. Culverted under both the south bound lanes of I-5 and Old Hwy 99. Thin layer of bed material at outlet. Wing walls at DS end. No bed material at US end. [Lvl B, Fredley, FishXing, 5/1/18].

Potential Habitat (Gain			
Survey Type:	PS4	Spawning (sq m): 4	,426 Length (m):	7,376
Significant Reach:	Yes	Rearing (sq m): 16	,511 PI Total	20.75

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WDFW Fish Passage and Diversion Screening Inventory Database Level B Culvert Assessment Report

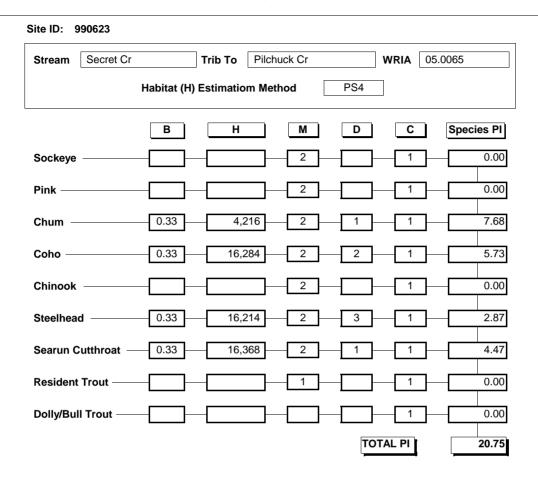
Site ID: 990623									
Reference Point									
Elevation (m): 100.00 Location: US invert									
Drainage Basin Basin Area (sq mi): 2.24 Basin Precipitation (in): 36.70									
Culvert Elevations									
Culvert ID Corrugation USIE (m) USCBE (m) DSIE (m) DSCBE (m) Sediment 1.1 Concrete 100.00 -999.99 99.19 99.31									
Downstream Control									
X-Section									
Station Top LB Toe LB Bed 1 Bed 2 Bed 3 Toe RB Top RB									
Distance (m) 0.00 0.95 1.65 2.15 2.85 3.70 4.85									
Elevation (m) 100.61 99.96 99.88 99.86 99.86 99.95 100.40 Substrate									
Downstream Control Water Surface Elevation (m): 100.03 Downstream Control OHW Surface Elevation (m): -999.99									
Downstream of Control									
Water Surface Elevation (m): 99.74 Channel Dominant Substrate: Gravel									
Distance Downstream (m):									
Results Velocity (m/sec): 0.92 Depth (m): 0.33									

WDFW Fish Passage and Diversion Screening Inventory Database Habitat Survey Summary Report

Site ID: 990623									
Latitude: 48.227199	Longitude: -122.228	295 WRIA:	05.0065						
Stream: Secret Cr	Tributary To: Pilchuck Cr	PI Total:	20.75						
Survey Type PS4									
Spreadsheet File(s):									
See WSDOT site 990622 for si	urvey files.								
Downstream Survey									
Date: 4/17/2018 Crew: Fre	edley;Moore Le	ngth (m): 1,462							
Downstream Comments:									
	1-2% gradients measured through wide open channel filled with cobbles, gravels, and fines. No natural barriers observed down to Pilchuck Cr. Numerous log streambed controls placed in channel below sites.								
Upstream Survey Date: 4/30/1991 Crew: Cooke; Pahutski Length (m): 7,768 Upstream Comments: Primarily forested habitat with low gradient. Sections of Secret Cr were walked up to culvert under Hwy 532. Great spawning and rearing habitat US. (PS4 completed on 990622 by Cooke; Pahutski 4/30/1997)									
Potential Habitat Gain									
Spawning Area (sq m): 4,	Distribution Anadromous Resident Only Unknown	Gain Direction (Resid	dent Only):						
Potential Species Benefit									
\square Sockeye / Kokanee	☐ Chinook	Searun Cutthroa	at						
☐ Pink	✓ Coho	Resident Trout							
✓ Chum	✓ Steelhead	☐ Bull Trout							

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Barrier Priority Index Report



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B = proportion of fish passage improvement (1, 0.67, 0.33).

H = potential habitat gain (square meters), spawning habitat for sockeye, pink and chum, rearing habitat for the rest.

M= mobility modifier (anadromous = 2, resident = 1).

D = stock condition modifier (critical = 3, depressed = 2, not 2 or 3 = 1).

C= repair cost modifier (<\$100K = 3, \$100K - \$500K = 2, >\$500K = 1).

WDFW Fish Passage and Diversion Screening Inventory Database Image Report - Active

Site ID: 990623				
Latitude: 48.227199	Stream:	Secret Cr	WRIA:	05.0065
Longitude: -122.228295	Tributary To:	Pilchuck Cr	Fish Use Potential:	Yes
Associated Features				
✓ Culvert☐ Non-Culvert Xing	☐ Dam	☐ Natural Barrier	☐ Diversion	



